

CRF Errors Corrected by the STIC System Branch

O/PE 0570
0429

Serial Number: 10/04/007

CRF Processing Date: 4/30/2002 #5
Edited by: _____
Verified by: Av (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**

#5



OIKE

RAW SEQUENCE LISTING

DATE: 04/30/2002

PATENT APPLICATION: US/10/041,007

TIME: 18:23:57

Input Set : N:\Crf3\04252002\J041007.raw

Output Set: N:\CRF3\04302002\J041007.raw

p.6

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1 <110> APPLICANT: Matsuda, Seiichi P.T.
2   Schepmann, Hala G
3 <120> TITLE OF INVENTION: Ginkgo Biloba Levopimaradiene Synthase
4 <130> FILE REFERENCE: P02081US1
5 <140> CURRENT APPLICATION NUMBER: US/10/041,007
6 <141> CURRENT FILING DATE: 2002-01-07
7 <150> PRIOR APPLICATION NUMBER: US 60/259,881
8 <151> PRIOR FILING DATE: 2001-01-05
9 <160> NUMBER OF SEQ ID NOS: 41
10 <170> SOFTWARE: PatentIn version 3.1
12 <210> SEQ ID NO: 1
13 <211> LENGTH: 2705
14 <212> TYPE: DNA
15 <213> ORGANISM: ginkgo biloba
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RAW SEQUENCE LISTING

DATE: 04/30/2002

PATENT APPLICATION: US/10/041,007

TIME: 18:23:57

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64 <210> SEQ ID NO: 2

65 <211> LENGTH: 873

66 <212> TYPE: PRT

67 <213> ORGANISM: Ginkgo biloba

68 <400> SEQUENCE: 2

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72   20          25          30
73   Lys Arg Ser Ser Phe Gly Phe Asn Ala Gln His Cys Val Arg Ser His
74   35          40          45
75   Leu Arg Leu Arg Trp Asn Cys Val Gly Ile His Ala Ser Ala Ala Glu
76   50          55          60
77   Thr Arg Pro Asp Gln Leu Pro Gln Glu Glu Arg Phe Val Ser Arg Leu
78   65          70          75          80
79   Asn Ala Asp Tyr His Pro Ala Val Trp Lys Asp Asp Phe Ile Asp Ser
80   85          90          95
81   Leu Thr Ser Pro Asn Ser His Ala Thr Ser Lys Ser Ser Val Asp Glu
82   100         105         110
83   Thr Ile Asn Lys Arg Ile Gln Thr Leu Val Lys Glu Ile Gln Cys Met
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85   Phe Gln Ser Met Gly Asp Gly Glu Thr Asn Pro Ser Ala Tyr Asp Thr
86   130         135         140
87   Ala Trp Val Ala Arg Ile Pro Ser Ile Asp Gly Ser Gly Ala Pro Gln
88   145         150         155         160
89   Phe Pro Gln Thr Leu Gln Trp Ile Leu Asn Asn Gln Leu Pro Asp Gly
90   165         170         175
91   Ser Trp Gly Glu Glu Cys Ile Phe Leu Ala Tyr Asp Arg Val Leu Asn
92   180         185         190
93   Thr Leu Ala Cys Leu Leu Thr Leu Lys Ile Trp Asn Lys Gly Asp Ile
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Output Set: N:\CRF3\04302002\J041007.raw

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103      Gln Lys Ile Pro Leu Asn Val Leu His Asn His Gln Thr Ala Leu Leu
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106          290                      295                      300
107      Asn Leu Gln Ser Arg Asp Gly Ser Phe Leu Ser Ser Pro Ala Ser Thr
108      305                      310                      315                      320
109      Ala Cys Val Phe Met His Thr Gln Asn Lys Arg Cys Leu His Phe Leu
110          325                      330                      335
111      Asn Phe Val Leu Ser Lys Phe Gly Asp Tyr Val Pro Cys His Tyr Pro
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113      Leu Asp Leu Phe Glu Arg Leu Trp Ala Val Asp Thr Val Glu Arg Leu
114          355                      360                      365
115      Gly Ile Asp Arg Tyr Phe Lys Lys Glu Ile Lys Glu Ser Leu Asp Tyr
116          370                      375                      380
117      Val Tyr Arg Tyr Trp Asp Ala Glu Arg Gly Val Gly Trp Ala Arg Cys
118      385                      390                      395                      400
119      Asn Pro Ile Pro Asp Val Asp Asp Thr Ala Met Gly Leu Arg Ile Leu
120          405                      410                      415
121      Arg Leu His Gly Tyr Asn Val Ser Ser Asp Val Leu Glu Asn Phe Arg
122          420                      425                      430
123      Asp Glu Lys Gly Asp Phe Phe Cys Phe Ala Gly Gln Thr Gln Ile Gly
124          435                      440                      445
125      Val Thr Asp Asn Leu Asn Leu Tyr Arg Cys Ser Gln Val Cys Phe Pro
126          450                      455                      460
127      Gly Glu Lys Ile Met Glu Glu Ala Lys Thr Phe Thr Thr Asn His Leu
128      465                      470                      475                      480
129      Gln Asn Ala Leu Ala Lys Asn Asn Ala Phe Asp Lys Trp Ala Val Lys
130          485                      490                      495
131      Lys Asp Leu Pro Gly Glu Val Glu Tyr Ala Ile Lys Tyr Pro Trp His
132          500                      505                      510
133      Arg Ser Met Pro Arg Leu Glu Ala Arg Ser Tyr Ile Glu Gln Phe Gly
134          515                      520                      525
135      Ser Asn Asp Val Trp Leu Gly Lys Thr Val Tyr Lys Met Leu Tyr Val
136          530                      535                      540
137      Ser Asn Glu Lys Tyr Leu Glu Leu Ala Lys Leu Asp Phe Asn Met Val
138      545                      550                      555                      560
139      Gln Ala Leu His Gln Lys Glu Thr Gln His Ile Val Ser Trp Trp Arg
140          565                      570                      575
141      Glu Ser Gly Phe Asn Asp Leu Thr Phe Thr Arg Gln Arg Pro Val Glu
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143      Met Tyr Phe Ser Val Ala Val Ser Met Phe Glu Pro Glu Phe Ala Ala

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Output Set: N:\CRF3\04302002\J041007.raw

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147	Asp	Leu	Tyr	Asp	Thr	His	Gly
148		625		630		635	
149	Glu	Ala	Val	Arg	Arg	Trp	Asp
150				645		650	
151	Asn	Gln	Leu	Lys	Val	Cys	Phe
152				660		665	
153	Phe	Gly	Lys	Asp	Gly	Leu	Lys
154				675		680	
155	Leu	Arg	Lys	Val	Trp	Glu	Gly
156				690		695	
157	Glu	Trp	Ser	Ala	Ala	Lys	Tyr
158				705		710	
159	Asn	Ala	Lys	Val	Ser	Ile	Ala
160				725		730	
161	Phe	Phe	Thr	Gly	Glu	Leu	Leu
162				740		745	
163	Leu	Arg	Ser	Lys	Phe	Leu	His
164				755		760	
165	Asn	Asp	Thr	Lys	Thr	Tyr	Gln
166				770		775	
167	Ser	Ser	Val	Gln	Cys	Tyr	Met
168				785		790	
169	Glu	Ala	Leu	Ser	His	Val	Tyr
170						805	
171	Leu	Asn	Trp	Glu	Leu	Ala	Asn
172				820		825	
173	Arg	Arg	Leu	Leu	Phe	Asn	Thr
174				835		840	
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RAW SEQUENCE LISTING

DATE: 04/30/2002

PATENT APPLICATION: US/10/041,007

TIME: 18:23:57

Input Set : N:\Crf3\04252002\J041007.raw

Output Set: N:\CRF3\04302002\J041007.raw

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234 <210> SEQ ID NO: 4

235 <211> LENGTH: 868

236 <212> TYPE: PRT

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238 <400> SEQUENCE: 4

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/041,007

DATE: 04/30/2002
TIME: 18:23:58

Input Set : N:\Crf3\04252002\J041007.raw
Output Set: N:\CRF3\04302002\J041007.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:30; N Pos. 9,15